

**Notes from  
Dark Energy Survey (DES) DECam Project  
Working Group Meeting (WGM)  
Friday, Nov. 16, 2007  
9:30 – 11:30 AM in the Snake Pit**

*Attendees: Hugh Montgomery, Paul Philp, Wyatt Merritt, Dean Hoffer, John Peoples, Brenna Flaughner, Andy Stefanik, Jim Strait, Byron Clark, Terri Shaw, Erik Gottschalk, Juan Estrada, Tom Diehl, Greg Bock, Dale Knapp, T.J. Sarlina, Cristina Beldica, Rich Kron, Jon Thaler and David Finley.*

- 1) HQ Interactions: Feedback on Discussions with Headquarters [Kathy Turner /Hugh Montgomery/John Peoples/Brenna Flaughner]

The funding profile is being discussed with DOE. Hugh Montgomery and Brenna Flaughner and Jim Strait have discussed the R&D and MIE funding profiles. Iterations on these profiles are underway including input from Level II managers. The resulting schedule at this time does not support the start of data taking in 2010.

- 2) DES/DECam Status Update [15 m; Brenna Flaughner]

Two lens polishing vendors were visited by Brenna and others. Both vendors can do this very tricky job and one will be chosen.

- 3) Response to Recommendations from Director's Preliminary Review of DECam Oct. 30-31, 2007:

- a) WBS 1.2 [Tom Diehl]

The presentation on the 7 Recommendations for WBS 1.2 (CCDs) is at

[http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11\\_16/ReviewResAns.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11_16/ReviewResAns.pdf)

There was discussion concerning recommendation #2, which recommended moving money from contingency to the base. This recommendation was made based on the evidence from Lot 3 wafers as presented at the review, in which there was an apparent discrepancy in the schedule regarding Lot 3. Montgomery strongly advised that the project accept the recommendation. Absent that move then it is apparent that the extant situation needs to be presented in a less confusing manner at the next review.

Six of the 7 recommendations are done. For items that are "DONE", it was noted that a short explanation should follow.

- b) WBS 1.3 [Terri Shaw]

The presentation on the 7 Recommendations for WBS 1.3 (Front End Electronics) is at

[http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11\\_16/WBS1%203\\_29OCT07-Pre-director's-review-responses-v2.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11_16/WBS1%203_29OCT07-Pre-director's-review-responses-v2.pdf)

Concerning recommendation #10, the reviewers arrived at the impression that the front end electronics was near or on the critical path, but this is not the case. This should be presented more clearly at the next review.

c) WBS 1.5 [Andy Stefanik]

The presentation on the 6 Recommendations for WBS 1.5 (Optical Mechanical) is at

[http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11\\_16/PMGNov162007-stefanik.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11_16/PMGNov162007-stefanik.pdf)

It is highly likely the hexapod system will be chosen to control the position of the camera, but this was not clear to the reviewers.

d) WBS 1.1 and overall cost and schedule [Brenna Flaugh]

The presentation on the 15 Recommendations for WBS 1.1 (Management) is in the first two slides of

[http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11\\_16/DECamCD2Preparations-111607.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11_16/DECamCD2Preparations-111607.pdf)

Four of the recommendations are marked as “finished”, and the remaining 11 are scheduled to be finished by December 8.

e) Responses on Documentation and preparation: [Wyatt Merritt]

The presentation is on the last two slides of

[http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11\\_16/DECamCD2Preparations-111607.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11_16/DECamCD2Preparations-111607.pdf)

Packaging of materials for the reviewers (perhaps on thumb-drives) could be considered. Consistency in naming documents could be useful in making it easier to identify a document as a DECam document, for example.

Preparations for the Performance Management review (EVMS) are underway (see slide 4).

4) Discussion on pending reviews [Dean Hoffer / All]

a) Discussion on Directors' CD-2/3a Review of DES on Dec. 11-13, 2007.

The presentation, led by Rich Kron and Dean Hoffer, is on slides 3 to 9 at

[http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11\\_16/OPMO\\_Slides\\_for\\_DES\\_WGM\\_16-Nov-07.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11_16/OPMO_Slides_for_DES_WGM_16-Nov-07.pdf)

The availability of 16 of the reviewers has been confirmed, suggestions for 8 who cannot make it are being pursued, and 3 have not responded. (These numbers represent updates to slide 5 which came out during discussion.)

The draft agenda is available at

[http://www.fnal.gov/directorate/OPMO/Projects/DES/DirRev/2007/12\\_11/Agenda\\_DR\\_DES\\_CD-2-3a\\_12-11-07.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/DirRev/2007/12_11/Agenda_DR_DES_CD-2-3a_12-11-07.pdf)

Simulation needs to be folded into the agenda. The role of Survey Planning may be best handled in the DECam Project Manager's talk in the opening session.

The draft charge is available at

[http://www.fnal.gov/directorate/OPMO/Projects/DES/DirRev/2007/12\\_11/ChargeforDES\\_DirectorsReview.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/DirRev/2007/12_11/ChargeforDES_DirectorsReview.pdf)

- b) Discussion on scheduling Director's/DOE FSO's Performance Management System Review (EVMS) Dec. 18-19, 2007.

The draft charge is available at

[http://www.fnal.gov/directorate/OPMO/Projects/DES/DirRev/2007/12\\_18/Charge\\_for\\_DE\\_Cam\\_DR-DOE\\_EVMS\\_Dec\\_18-19\\_2007.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/DirRev/2007/12_18/Charge_for_DE_Cam_DR-DOE_EVMS_Dec_18-19_2007.pdf)

Please review this draft charge and give feedback to Dean. [Note: The date on this draft is December 15, 2007 which is in the future.]

- c) Discussion on DOE/NSF CD-2/3a Review of DES on Jan. 29-31, 2008.

This item was not discussed.

#### 5) Review Timeline [Dean Hoffer]

This item was not discussed, but the information is given on slide 12 of

[http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11\\_16/OPMO\\_Slides\\_for\\_DES\\_WGM\\_16-Nov-07.pdf](http://www.fnal.gov/directorate/OPMO/Projects/DES/WGM/2007/11_16/OPMO_Slides_for_DES_WGM_16-Nov-07.pdf)

#### 6) Next Meeting: Dec. 7 [Dean Hoffer]

At the December 7 meeting perhaps it will be better to concentrate on last minute details or practice talks for the review which will start in 3 more days, rather than to follow the standard agenda.

### Action Items

#### New

None

#### Rollover

- 1) DECam to look at need for a percent of an Admin Support FTE for ongoing project support and work with PPD Management. [Brenna Flaughner, Jim Strait/Greg Bock]

*Jim Strait has directed PPD Headquarters' administrative staff to support DES.*

*Done.*

- 2) Continue consulting with Kathy and Nigel to identify all documents that will be needed from the non-DECam components of DES (i.e., DES DM and CFIP) for the joint CD2 review. [Peoples]

*Christina and John reported on this item. The requirements document is almost in final form. Changes and updates are needed for the Project Execution Plan (PEP). Responses to the October and December CD-2/3a reviews will be contained in a document which can be folded into presentations at the January DOE/NSF CD-2/3a review and the May DOECD-3b review. The Technical Design Report (TDR) is in good shape.*

*The DES Data Management proposal will be a collaborative research proposal to NSF.*

*Ongoing.*

**Final Note: Once again, there were no new Action Items identified.**